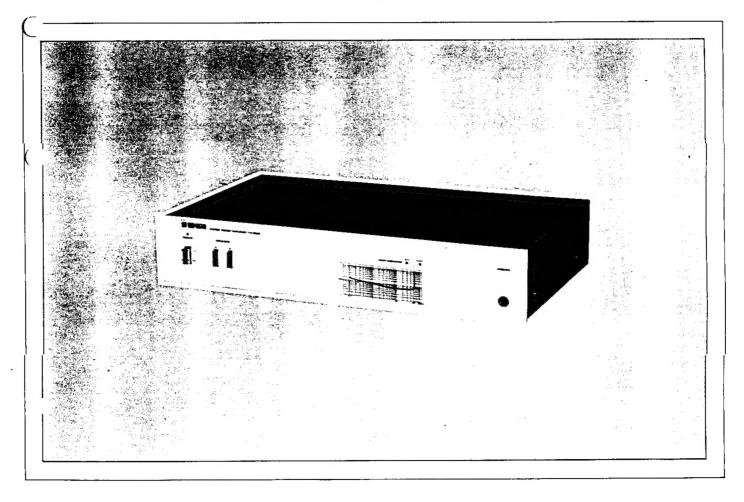
Service Manual

Stereo Power Amplifier

MODEL TM2550





1. SPECIFICATIONS

Power Output 50 Watts per channel at 4 ohms	Signal to Noise Ratio (IHF-A) 110 dB
from 20 to 20,000 Hz, both	Power Supply AC 220/240 Volts 50 Hz
channels driven 0.08% T.H.D.	Dimensions 430(W) x 80(H) x 250(D) mm
Damping Factor at 1 kHz 4 ohms	Weight
Frequency Response (-1.5 dB) 5 to 60 Hz	

Subject to change without notice,

2. DISASSEMBLY INSTRUCTIONS

- (1) Top cover removal
 - Remove four screws on the both sides of the set and lift up the top cover.
- (2) Bottom cover removal
 - Remove a screw on the center of the bottom cover and lift the bottom cover.
- (3) Front panel removal

Remove six screws (A) from the top and bottom as shown in Figures 1 and 2, and the front panel with push buttons can be removed.

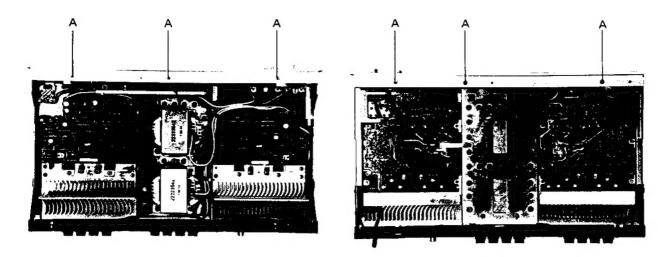


Figure 1

Figure 2

3. ALIGNMENT INSTRUCTIONS IDLE CURRENT

TEST EQUIPMENTS

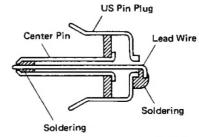
- (1) VTVM (DC).
- (2) Short pin plugs (Accessories of pre-amplifier or Figure).

NOTE:

(1) Align after five minutes when power has been supplied.

ALIGNMENT (For alignment point, See Figure 5.)

- (1) Connect test equipments as shown in Figure 3.
- (2) Short the input terminal with short pin plugs.
- (3) Adjust the SVR501 (L ch), and SVR502 (R ch) as the VTVM indicates 16.5±3mV DC.



SHORT PIN PLUG

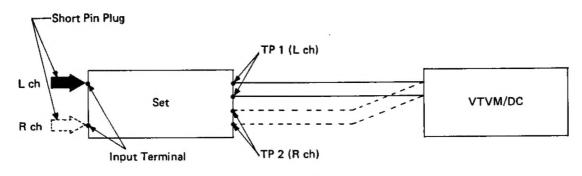


Figure 3

PEAK INDICATION

TEST EQUIPMENT

- (1) AF oscillator
- (2) VTVM (AC).
- (3) Dummy loads (4 ohms above 250W).

NOTE:

(1) Don't short the speaker terminals.

FOR SERVICE MANUALS CONTACT:

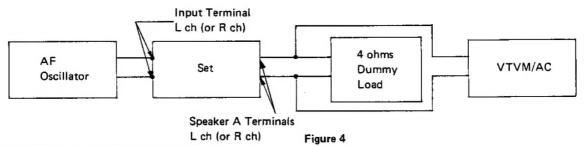
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FAX: 01844 - 352554

ALIGNMENT (For alignment point, See Figures 5 and 6.)

- (1) Set the speaker selectors to SPEAKER A position.
- (2) Connect test equipment as shown in Figure 4.
- (3) Adjust the SVR701 (L ch) or SVR702 (R ch) to turn on the peak indicator at 14.14V (50W) on VTVM.



ALIGNMENT POINTS

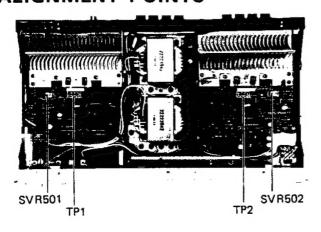


Figure 5

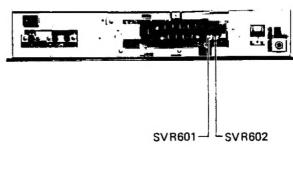


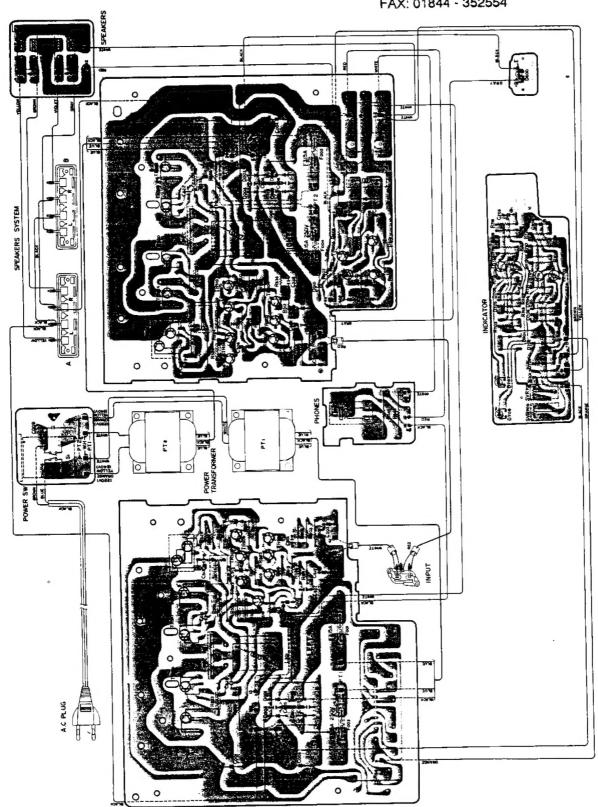
Figure 6

4. PRINTED CIRCUIT BOARD BOTTOM VIEW AND WIRING

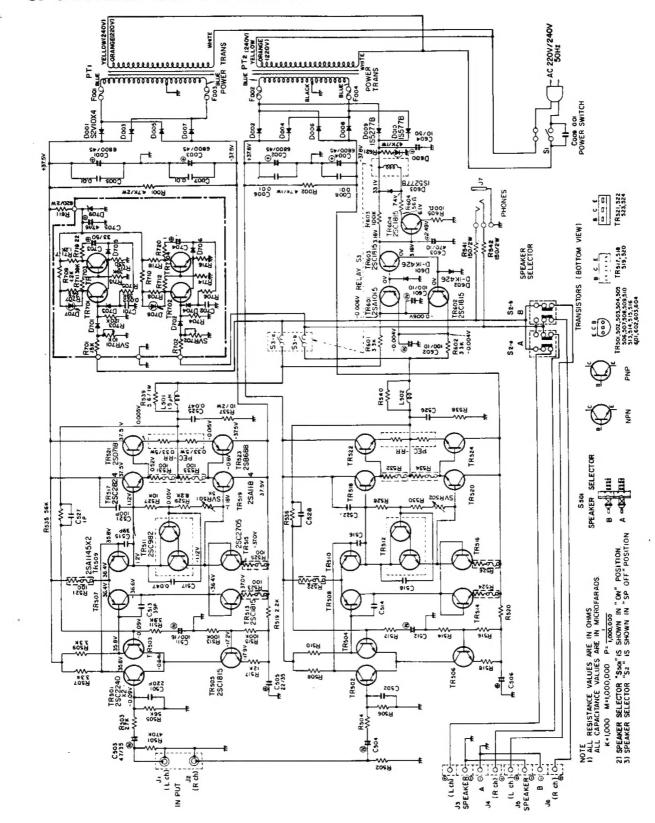
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5. SCHEMATIC DIAGRAM



6. EXPLODED VIEW AND PARTS LIST FOR SERVICE MANUALS CONTACT: MAURITRON TECHNICAL SERVICES **EXPLODED VIEW** www.mauritron.co.uk TEL: 01844 - 351694 FAX: 01844 - 352554

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PARTS LIST ELECTRICAL PARTS

(

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ELECTRIC	ACTAIL		FAX: 0184	4 - 352554	
Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
	TRANS	ISTORS & DIODES	TR523	36625336	2SB688-R
	Symbol No.	with TR: Transistor	L TR524	36625336	2SB688-R
		with D: Diode	TR601	3653404A	2SA1015-Y
TR501		2SC2240-BL1	or TR601	36524060	2SA1015-GR
TR502		2SC2240-BL1	TR602	36317480	2SC1815-BL
TR503		2SC2240-BL1	TR603	36317480	2SC1815-BL
L TR504	36325846	2SC2240-BL1	TR604	36317480	
or			TR701	36317480	
TR501	36325847	2SC2240-BL2	TR702	36317480	2SC1815-BL 2SC1815-BL
TR502	36325847	2SC2240-BL2	TR703		
TR503	36325847	2SC2240-BL2	TR703	36317480	ł .
└ TR504	36325847	2SC2240-BL2	1 1704	36317480	2SC1815-BL
Or TOFO1	26225040	2562240 51 2	D001	22115564	S2V10-X
TR501	36325848	2SC2240-FL3	D002	22115564	
	36325848	2SC2240-BL3	D003	22115564	
TR503	36325848	2SC2240-8L3	D004	22115564	
L TR504	36325858	2SC2240-BL3	D005	22115564	
TR505	36217480	2SC1815-BL	D006	22115564	S2V10-X
TR506	36317480	2SC1815-BL	D007	22115564	S2V10-X
TR507	36540510	2SA1145-0	D008	22115564	2SV10-X
TR508	36540510	2SA1145-O	D009	3797380	1S5277B
TR509	36540510	2SA1145-0	D010	3798380	1S5277B
TR510	36540510	2SA1145-0	D600	22116532	
TR515	36334810	2SC2705-O	D601	22115415	
L TR516	36334810	2SC2705-O	D602	22115415	
or	205 40500	0001115	D603	37978380	
TR507	36540520	2SA1145-Y	D701		1S1555V-TP-3
TR508	36540520	2SA1145-Y	D702		1S1555V-TP-3
TR509	36540520	2SA1145-Y	D703		1S1555V-TP-3
TR510	36540520	2SA1145-Y	D704		1S1555V-TP-3
TR515	36334820	2SC2705-Y	D705		1S1555V-TP-3
111310	36334820	2SC2705-Y	D706		1S1555V-TP-3
TR511	36753140	2SC982-TM	D707	22115632	
TR512	36753140	2SC982-TM	D708	22115632	
TR513	36317480	2SC1815-BL	D709	22115563	RD13E-B3
TR514	36317480	2SC1815-BL			
TR517	36339512				
TR518	36339512	2SC2824-O		ļ	
TR519	36542252	2SA1184-O			
TR520	36542252	2SA1184-0		C	APACITORS
TR521	36845859	2SD718-O	T-1	D. +0 FF	NE 1-+F0/ K-+100/ M-+000/
TR522	36845859	2SD718-O			PF, J: ±5%, K: ±10%, M: ±20%, +80 to20%, G: ±20%
TR523	36625360	2SB688-O		npolarity ty	
□ TR524 or	36625360	2SB688-O			
TR517	36339522	2SC2824-Y	C001	22440324	Electrolytic 6800 mfd/45WV, P
TR518	36339522		C002	22440324	Electrolytic 6800 mfd/45WV, P
TR519	36542262	2SA1184-Y	C003	22440324	Electrolytic 6800 mfd/45WV, P
TR520	36542262	2SA1184-Y	C004	22440324	Electrolytic 6800 mfd/45WV, P
TR520	36845836	2SD718-R	C005	22342103	Ceramic 0.01 mfd, Z
1 1			C006	22342103	Ceramic 0.01 mfd, Z
TR522	36845836	2SD718-R			

5)

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
C007	22342103		R511	22750532	Metal Oxide 3.9K ohm ¼W, G
C008	22342103		R512		Metal Oxide 3.9K ohm ¼W, G
C009	22340154	Ceramic 0.01 mfd, 400V, P	R513	22543104	
C501	22361221	Ceramic 220 pF, K	R514	22543104	
C502	22361221	Ceramic 220 pF, K	R515	22543104	1
C503	22403080	Electrolytic 4.7 mfd/35WV(N)	R416	22543104	
C504	22403080	Electrolytic 4.7 mfd/35WV(N)	R517	22543123	
C505	22447220	Electrolytic 22 mfd/35WV, P	R518	22543123	12K ohm
C506	22407220	Electrolytic 22mfd/35 WV, P	R519	22543222	2.2K ohm
C511		Electrolytic 100 mfd/16WV(N)	R520	22543222	2.2K ohm
C512	22403082		R521	22500233	Fusible 100 ohm, ¼W, J
C513	22361390	Ceramic 39 pF, J	R522	22500233	Fusible 100 ohm, ¼W, J
C514	22361390	Ceramic 39 pF, J	R523		Fusible 100 ohm, ¼W, J
C515	22361390		R524		Fusible 100 ohm, ¼W, J
C516	22361390	Ceramic 39 pF, J	R524	22500233	Fusible 100 ohm, ¼W, J
C517	22342473		R525		Fusible 100 ohm, ¼W, J
C518	22342473		R526	22500233	Fusible 100 ohm, ¼W, J
C521	22361101	Ceramic 100 pF, K	R527	22543103	10K ohm
C522	22361101	Ceramic 100 pF, K	R528	22543103	10K ohm
C525	22342473	•	R529	22543822	8.2K ohm
C526	22342473		R530	22543822	8.2K ohm
C527		Ceramic 1 pF, D	R531	22500233	Fusible 100 ohm, 1/2W, J
C528	22361109	Ceramic 1 pF, D	R532	22500233	Fusible 100 ohm, ¼W, J
C601	22403082	Electrolytic 100 mfd/16WV(N)	R533	22500233	Fusible 100 ohm, ¼W, J
C602	1	Electrolytic 100 mfd/16WV(N)	R534		Fusible 100 ohm, ¼W, J
C603	1	Electrolytic 470 mfd/10WV, P	R535	22470538	Metal Oxide 56K ohm, ¼W, G
C604		Electrolytic 10 mfd/50WV, P	R536	22570538	Metal Oxide 56K ohm, ¼W, G
C701	22342223		R537		Metal Oxide 10 ohm, 2W, J
C702	22342223		R538	22573100	Metal Oxide 10 ohm, 2W, J
C703	1	Electrolytic 3.3 mfd/50WV, P	R539		Metal Oxide 5.6 ohm, 1W, J
C704		Electrolytic 3.3 mfd/50WV, P	R540		Metal Oxide 5.6 ohm, 1W, J
C709	22448339	Electrolytic 3.3 mfd/50WV, P	R541	1	Metal Oxide 150 ohm, 2W, J
			R542		Metal Oxide 150 ohm, 2W, J
			R601	22543332	3.3K ohm
			R602	22543332	3.3K ohm,
		ESISTORS	R603		100K ohm
All fived a			R604	22543560	56 ohm
otherwise		1/8W, ±5%, carbon resistor unless	R605	22543101	100 ohm
		±5%, K: ±10%	R611		Metal Oxide 820 ohm, 2W, J
			R621		Metal Oxide 4.7K ohm, 1W, J
R001		Metal Oxide 4.7K ohm, 2W, J	R701	22543153	15K ohm
R002		Metal Oxide 4.7K ohm, 2W, J	R702	22543153	15K ohm
R501	22543474		R703		120K ohm
R502	22543474		R704		120K ohm
R503	22543272	2.7K ohm	R705	22543393	39K ohm
R504	22543272	2.7K ohm	R706	22543393	39K ohm
R505	22543563	56K ohm	R707 R708	22543222	2.2K ohm
R506	22543563	56K ohm	R709	22543222 22543122	2.2K ohm
R507	22543332	3.3K ohm	R710	22543122	1.2K ohm
R508	22543332	3.3K ohm		22543122	1.2K ohm
R509	22543332	1.3K ohm	R711	1 1	39K ohm
7510	22543332	3.3K ohm	R712	22543393	39K ohm
			R713	22543393	39K ohm

Part No.	Description
22543393	39K ohm
22543331	330 ohm
22543331	330 ohm
22543122	1.2K ohm
22543122	1.2K ohm
22543220	22 ohm
22543220	22 ohm
	Semi-Fixed 5K ohm
	Semi-Fixed 5K ohm Semi-Fixed 10K ohm
	Semi-Fixed 10K ohm
22658454	Semi-Fixed TON Drim
MIS	CELLANEOUS
22211220	Choke Coil, AF
22211228	Choke Coil, AF
	Push Switch (Power)
22140640	Push Switch (Speaker Selector)
22163765	US2P Jack
	4P Terminal
	4P Terminal
	Jack 6.5¢
22,00,10	
22144263	Fuse 3.15A S
22165047	
22223542	Power Transformer (Europe)
	Power Transformer (UK)
	Power Cord (Europe)
22177081	Power Cord (UK)
URITRON www. TEL:	RVICE MANUALS ONTACT: TECHNICAL SERVICES mauritron.co.uk 01844 - 351694 01844 - 352554
	22543393 22543331 22543331 22543122 22543122 22543220 22543220 22658471 22658454 22658454 22658454 22658454 2211220 22211228 22140624 22140640 22163765 22161517 22163719 22144263 22165047 22163719 221476550 22177081 FOR SE

EXPLODED VIEW PARTS

No.	Part No.	Description	
301	20015820	Chassis	
302	20735705	Bracket	
303	20735697	Power Tranformer Bracket	
304	20848603	Cabinet	
305	20711680	Panel Assembly	
306	22193225	P.C. Board, Indicator	
307	20748675	Push Button	
308	20874676	Push Button	
309	22776666	Push Spring	
310	22756528	Cushion	
311	22832826	Bottom Cabinet	
312	20842649	Foot	
313	20015836	Back Chassis	
314	22754791	Cord Clamper	
315	22184183	Cord Clamper	
316	22193226	LED P.C. Board	
317	22993614	Band	
318	22755516	Clamper Lug	
319	22748840	Radiator	
320	22748858	Shield Plate	
321	22756983	Cushion	
322	20747631	P.C. Board Holder	
324	22193259	P.C. Board, Switch	
325	20746920	Transistor Holder	
326	22193217	AF P.C. Board (Left)	
327	22193218	AF P.C. Board (Right)	
328	22193258	P.C. Board, Switch	
329	22193160	P.C. Board, Headphone	
330	20754825	Earth Joint	
	SCRE	WS & NUTS	
N1	70433008	Bind Head 3.0 x 8 mm	
N2	22701757	Bind Head 3.0 x 6 mm	
N3	22701716	Bind Head 3.0 x 14 mm	
N4	20795955	Bind Head 3.0 x 6 mm with SW	
N6	72633066	Bind Head Tapping 3.0 x 6 mm	
N7	72633008	Bind Head Tapping 3.0 x 8 mm	
N10	22701724	Bind Head Tapping 3.0 x 10 mn	
N11	20795992	Pan Head 3.0 x 8 mm with W	
N12	70443006	Flat Head 3.0 x 6 mm	
N13	73653000	Nut 3.0¢	
N19	22701790	Bind Head Tapping 4.0 x 6 mm	
N22	20795908	Pan Head Tapping 3.0 x 8 mm	
		with W	
	AC	CESSORIES	
	22953955	Owner's Manual	
	1	1	